**S Line**

**Module: Advanced loop powered analog indicator with 4 digit display.**

**Linearity error:** 0.05%

**Electromagnetic interference:** +1%  

**ENVIRONMENTAL CONDITIONS:**
- Operating temperature: -10 to +60 °C
- Storage temperature: -20 to +85 °C
- Humidity: 30 to 85% non-condensing
- Altitude: Up to 2000 m above sea level

**CONNECTIONS:**
- Terminal block: Removable, 2-way screw terminals, 0.5mm pitch (Power supply)
- **DIMENSION / BOX**
  - Size (L x W x H): 96 x 48 x 40 mm
  - Weight: 200 g

**ISOLATIONS / STANDARDS:**
- EN61053-7:02 (electromagnetic immunity, industrial environment)
- EN61053-7:02 (electromagnetic immunity, industrial environment)
- EN61508:02 (safety).
  - All circuits must be isolated from other circuits under dangerous voltage with double insulation. The power supply transformer must comply with EN61508. "Insulated transformers and safety transformers"

**Installation manual**

**Contents:**
- General features 5
- Terminal features 4
- Electrical connections 5
- Power supply 5
- Error types 5
- Change parameters menu 7
- Technical parameters example 8
- Terminal block and button position 9
- Programming diagram 9
- Max and dimension 10
- Waste disposal 15

---

**General description**

The S315 can read input signal current (4-20mA). Power supply is given by loop of measure. All parameters and display configuration can be set by menu. The input will be shown and scaled on a 4 digit display according to the setup. S315 has an excellent resolution, precision and temperature stability. The compact dimensions allow it to fit in any assembly in electrical switchboard.

**Electrical connections**

**POWER SUPPLY AND INPUT CURRENT**

![Diagram of power supply and input current]

**Technical features**

**POWER SUPPLY**

- By loop
- Power supply by loop of measure
- Current input 4-20mA
- Loop voltage drop 0.5V (400 x 4-20mA)
- ADC to 16 bit
- Loop powered measure (30V Max)
- Easy navigation on the programming menu through three buttons on the front panel
- Protection index IP65 (with the provided front panel

**ERRORS REPORTED TO MAXIMUM INPUT RANGE VOLTAGE AND CURRENT MEASURED**

- Resolution: 16 bit, 4000 data max
- Accuracy: 0.05%
- Thermal coefficient: 0.03%/°C

---

**Installation rules**

The module is designed to be installed in the electrical switchboard. In order to ensure optimum performance and the longer working life, the module must be supplied with an adequate ventilation and no necessary of other objects that obstruct the ventilation slots, never install modules above sources of heat.

---

**Parameter menu**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAR</td>
<td>Enable the password from the display menu</td>
</tr>
<tr>
<td>L0-LO</td>
<td>Start scale of display</td>
</tr>
<tr>
<td>HI-HI</td>
<td>Full scale of display</td>
</tr>
<tr>
<td>dp-dp</td>
<td>Decimal point position on display</td>
</tr>
<tr>
<td>FL</td>
<td>Filter level</td>
</tr>
<tr>
<td>dFL</td>
<td>Default est. range</td>
</tr>
</tbody>
</table>

**Error Types**

- A1: The value to be shown is greater than 3% regarding the value of HI - dl.
- A2: The value to be shown is lower than 9999
- A3: The value to be shown is lower than 9999

**Parameter configuration example**

If you would like the S315 with the filter and that the display shows the minimum value at -11.11 (that match 6 mA in input) and the maximum value at 99.99 (that match 20 mA in input), following the instruction below.

- Enter upon menu pressing for 3 seconds DOWN = MENU "OK" until the display shows "-11.11" and the display shows "99.99".
- Open S.E.R.T. menu and modify the following parameters:
  - "P.D." = 11.11
  - "H.P." = 99.99

---

**Change parameter menu**

The change occurs digit to digit. The digit to modify flashes on the figure below the digit that you will modify is bigger than others. The diagram represents an example with 4 digits.

**Terminals and buttons position**

- **FRONTAL SIDE: BUTTONS**
- **REAR SIDE: REMOVABLE SCREW TERMINALS**

---

**SENECA s.r.l.**  
Via Austria, 26 - 35127 - PADREO - ITALY  
Tel: +39.049.8705355 - 8705359 - Fax +39.049.8706287  
e-mail: info@seneca.it  
www.seneca.it
Disposal of Electrical & Electronic Equipment (Applicable throughout the European Union and other European countries with separate collection programs)

This symbol, found on your product or on its packaging, indicates that this product should not be treated as household waste when you want to dispose of it. Instead, it should be handed over to an applicable collection point for the recovery of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences to the environment and human health, which could otherwise be caused by inappropriate disposal of this product. The recycling of materials will help to conserve a valuable resource. For more detailed information about the recycling of this product, please contact your local city office, waste disposal service or the retail store where you purchased this product.

SENeca s.r.l.
Via Austria, 26 - 35127 - PADOVA - ITALY
Tel. +39.049.8705355 - 8705359 - Fax +39.049.8706287
e-mail: info@seneca.it - www.seneca.it

This document is property of SENECA srl. Duplication and reproduction are forbidden, if not authorized. Contents of the present documentation refer to products and technologies described in it. All technical data contained in the document may be modified without previous notice. Contents of this documentation are subject to periodical revision.